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ABSTRACT

The results of a Manpower Needs Survey Conducted to discover the job opportunities available in two Maryland counties for the trainee or graduate of a community college is presented. The information presented was obtained from employers in Montgomery and Prince Georges Counties who were mailed questionnaires in February 1971. The sample of firms selected to receive a questionnaire was chosen from a universe consisting of: (1) all establishments covered by the Maryland Unemployment Insurance Law, and (2) Nonagricultural firms in noncovered industries. The questionnaire listed 90 occupations in such broad occupational areas as business, data processing, health, service, technical, trades and industrial. For each occupation the following information was requested: (1) number of workers currently employed as of the pay period including February 12, 1971, and (2) expected future employment in the occupation in February 1973 and February 1976. The information concerning occupational needs provided by the reporting employers was tabulated by major industrial categories and by size class within these categories. (Author/CK)

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ED 069277

OCCUPATIONAL OUTLOOK

MONTGOMERY AND PRINCE GEORGES COUNTIES

A forecast of training requirements for occupations which will hold promise in the next five years.

Prepared by:

Department of Employment and Social Services
Employment Security Administration
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FOREWORD

This report presents the results of a Manpower Needs Survey conducted by the Department of Employment and Social Services at the request of community college educational authorities in Montgomery and Prince Georges Counties. The survey sought to discover the job opportunities available in these counties for the trainee or graduate of a community college offering a two-year curriculum comparable to, but broader in scope than, that offered by the average junior college. It also sought to learn the attitude of employers towards participating in educational assistance to employees attending these community colleges. Additionally, for those establishments using computers it requested the make, model number, orientation (card, disk, tape), program language employed, and whether computer time-sharing services were used.

The survey questionnaire listed some ninety occupations, of which more than two-thirds would be appropriate for a trainee or a graduate of a community college. Other classifications which would absorb the high school graduate were included in the questionnaire as were a number of job classes pertinent to the general economy of these two counties but which permit a lower level of education.

The statistical data and narrative presentation in this report were prepared by staff members of the Research and Analysis Office, Employment Security Administration of the Department of Employment and Social Services. A portion of the basic background material was developed from the U. S. Census of Population data and information furnished by the Maryland Departments of State Planning, Health and Mental Hygiene, and Economic and Community Development.

Without the cooperation of industry, which supplied the initial establishment information, this survey would not have been successful. Acknowledgement is made to all who cooperated in this survey.

METHODOLOGY

The information presented in this report was obtained from employers in Montgomery and Prince Georges Counties who were mailed questionnaires in February 1971. The sample of firms selected to receive a questionnaire was chosen from a universe consisting of:

a. All establishments covered by the Maryland Unemployment Insurance Law, and

b. Nonagricultural firms in noncovered industries (hospitals, educational institutions, Federal, State and Local government agencies). Self-employed workers, domestics, and agricultural workers were not included in the survey.

Firms in the universe listing were stratified by size class as follows:

Size Class I - All firms employing 38 or more employees
Size Class II - All firms employing 12 to 37 employees
Size Class III - All firms employing 4 to 11 employees

All firms in Size Class I received the questionnaire. This procedure insured that all firms representing the highest 50% of employment were canvassed. In general, the questionnaire was sent to every 5th firm in Size Class II and to every 20th firm in Size Class III. However, where appropriate in selecting firms in these latter size classes (overcoming under-representation either by industry or employment), the frequency of selection was increased. This system of selection yielded a total of 982 establishments in the sample in Montgomery County and 908 in Prince Georges County.

The questionnaire listed 90 occupations in such broad occupational areas as business, data processing, health, service, technical, trades, and industrial. For each occupation the following information was requested:

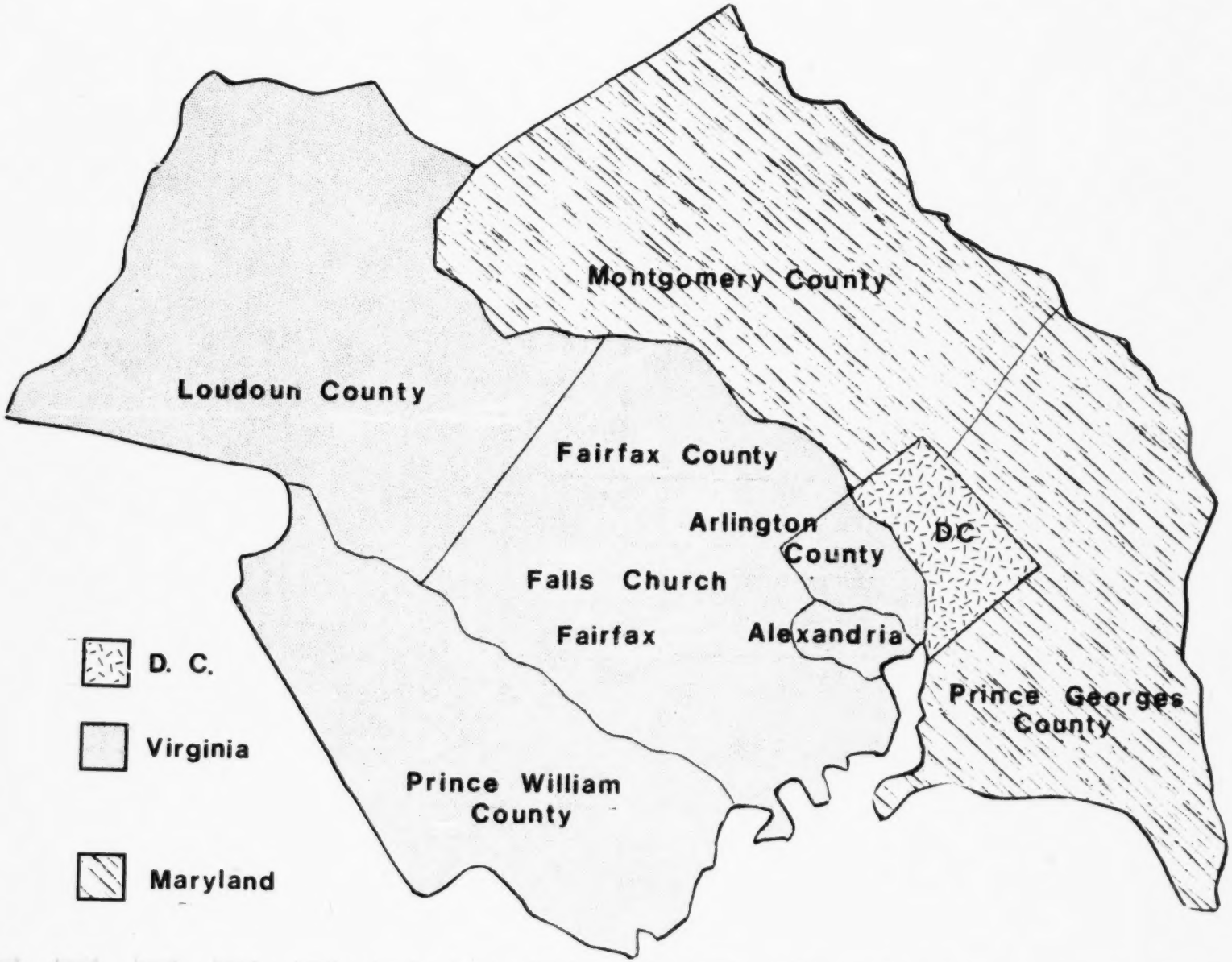
a. Number of workers currently employed as of the pay period including February 12, 1971, and

b. Expected future employment in the occupation in February 1973 and February 1976.

Completed questionnaires with usable data were received from 675 firms in Montgomery County and 570 firms in Prince Georges County, representing a response rate of 68.7 percent and 62.8 percent respectively in these counties. Base employment in the firms returning usable questionnaires totaled 76,838 for Montgomery County for March 1970 and 71,679 for Prince Georges County for the same period. Since sample base employment of nonagricultural wage and salary workers was 119,913 workers in Montgomery County and 101,982 workers in Prince Georges County, the response rate in terms of persons employed was 64.1 percent and 70.3 percent in the respective counties.

The information concerning occupational needs provided by the reporting employers was tabulated by major industrial categories and by size class within these categories. To allow for employment in firms not surveyed and firms either not returning the questionnaires or returning nonusable ones, total employment by major industrial category and size class in the sample was compared with total employment by major industrial category and size class within the respective counties. This comparison provided inflation factors (one for each size class within the major industrial category) by which the data in each sampling cell could be raised to the level of the universe for each county. These inflation factors were then applied to all occupational data reported by firms in that particular industry group and size class. These inflated occupational data were then tabulated by occupation to provide information concerning employment needs in Montgomery and Prince Georges Counties for each surveyed occupation.

WASHINGTON STANDARD METROPOLITAN STATISTICAL AREA



SURVEY AREA

The two counties which constituted the survey area make up the northern segment of the Washington Metropolitan Area. Besides Montgomery and Prince Georges Counties in Maryland, this metropolitan area includes four counties and three independent cities in Virginia, and the District of Columbia itself. Those sections of the two Maryland counties which are contiguous to the District are densely populated, typical of most counties that border on large central cities. Further away, both counties take on a more rural aspect.

The average education in both counties is high and a substantial percentage of the people are professionals. Many have come to Maryland to take advantage of job opportunities in the Federal government.

Montgomery County lies in the Piedmont Plateau and its agriculture has, for many years, been quite different from that of Prince Georges which lies in the Coastal Plain. The accent is on dairy products in the former, while field crops, especially tobacco, are most important in the latter. On average, the value of homes is higher in Montgomery County than in Prince Georges. The residential area includes a number of attractive country clubs. Montgomery County has the highest median family income and greatest per household buying income in the State. Prince Georges County is also very high in these regards by both State and national standards.

Prince Georges has more manufacturing and industrial employment, whereas Montgomery has developed, primarily, light industry, particularly scientific instrument manufacturing. Prince Georges leads the counties of the State in the production of sand and gravel. The construction industry has boomed for years in both counties.

POPULATION TRENDS

To grasp the explosive population growth experienced in these two counties, and its impact on population density, consider Table A below:

Table A

County	Land Area Square Miles	Population-1960 Number	Population-1960 per Square Mile	Population-1970 Number	Population-1970 per Square Mile
Montgomery	493	340,928	691.5	522,809	1060.0
Prince Georges	485	357,395	736.9	660,567	1362.0
Total	978	698,323	714.0	1,183,376	1210.0

Population source: U. S. Census of Population 1960, 1970.

The population has risen by 53.3% in Montgomery County and by 84.8% in Prince Georges County as have the respective population densities. Such increases imply substantial increases in all major industrial categories in both counties. The growth of these latter in the short space of a decade is reflected in Tables B and C. It is anticipated that the population will rise to 588,000 in Montgomery County and to 817,000 in Prince Georges County by 1975.

LABOR FORCE TRENDS

Over the past ten years, both of these counties have continued to experience the phenomenal growth in employment which started during the World War II period. Total nonagricultural employment more than doubled in both counties between 1960 & 1970 (see Tables B and C). The nonmanufacturing segment of industry predominates in both counties, accounting for an estimated 96 percent of total nonagricultural employment in Montgomery County and an estimated 95.3 percent of total nonagricultural employment in Prince Georges County In both counties, the bulk of employment lies in government, services, and wholesale and retail trade. The robust growths of the construction, transportation-utilities, and financial industrial categories furnish a strong indication of the tremendous economic expansion which both counties have experienced over the decade--an expansion which is continuing.

To supplement the summarizing comments pertaining to labor force trends, Table D, which shows year-end annual averages during the period 1965-1970 for employment covered by the Maryland Unemployment Insurance Law and Federal government employment by major industrial categories, has been included.

As of this report, data are not available to permit meaningful comparisons of changes in major occupational groups over the decade. However, those occupations which, on the basis of information obtained in this study, reflect the greatest growth and replacement potentials in the next 5 years, are tabulated and discussed in the succeeding section, Future Manpower Needs.

FUTURE MANPOWER NEEDS

In those occupations surveyed, growth vacancies for both counties will total nearly 43,000 and replacement vacancies approximately 97,000 (see Table E). Nearly 45% of the growth will occur in business occupations, followed by approximately 30% in trades and industrial occupations with the remaining percentages of growth distributed (approximately) 8% to Data Processing, 8% to Service, 5% to Technical Occupations, and 3% to Health Occupations. Replacement needs in the various major categories of occupations follow the same pattern as growth opportunities with the highest percentage of replacement needs attributable to business occupations, the next highest to trade and industrial occupations and so on through the categories.

Tables E, F, and G have been included to provide a guide for planners in evaluating the growth and replacement needs of all surveyed occupations on a bi-county and individual county basis. Further, Tables H, I, and J abstract the 15 occupations reflecting the greatest growth potential (16 occupations in the case of Prince Georges County) over the next five years. The priority of these occupations in terms of the total number of additional requirements (priority assigned according to the number of additional requirements and indicated by the number which follows) correlates very closely with their order of growth potential.

EDUCATIONAL REQUIREMENTS

Of the total of 80,311 jobs surveyed in Montgomery County and of 80,974 jobs surveyed in Prince Georges County, more than 60% were designated by employers as jobs requiring at least a high school education (see Tables K and L).

In both counties, an analysis of these tables shows that employers listed positions requiring two or more years of college in significant numbers (100 or more) for:

- Accountant
- Commercial Artist
- Bookkeeper, Clerical
- Buyer or Purchasing Agent
- Personnel Worker
- Secretary (specialized)
- Outside Salesman
- Inside Salesperson
- Management Trainee
- Computer Programmer
- Systems Analyst
- Medical Laboratory Technician
- Licensed Practical Nurse
- Registered Nurse
- Library Assistant
- Teacher
- Social Welfare Assistant
- Technician:
  - Architectural
  - Civil Engineering
  - Electronic
  - General Engineering
  - Mechanical Engineering
- Draftsman

Of special note is an indicated 2 year college requirement for 1,058 draftsman in Montgomery County, a reflection of the need of a highly specialized federal government agency located in the county. For additional information concerning educational qualifications for selective occupations, refer to the section entitled "Occupational Information".

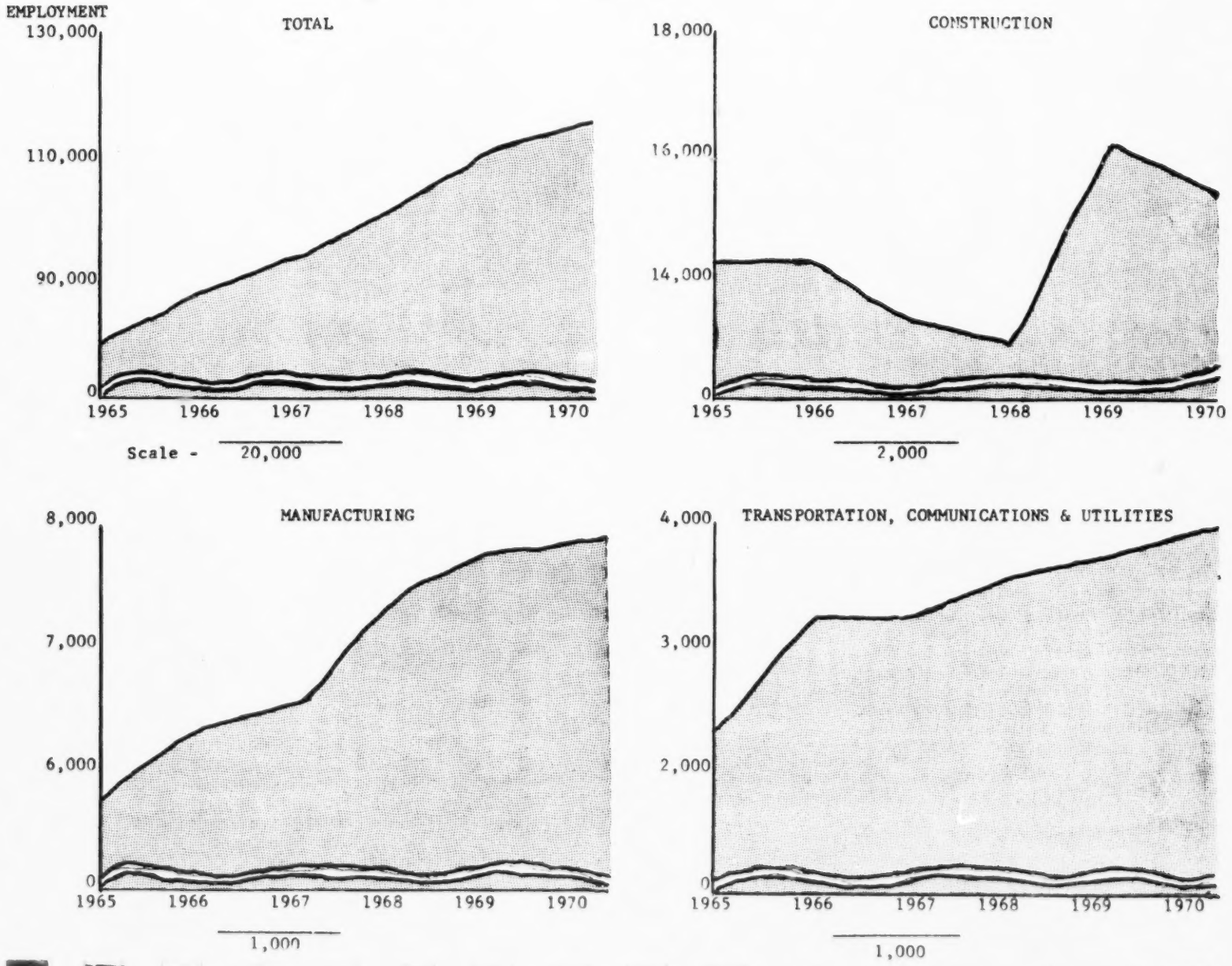
FINANCIAL AID

Each surveyed firm was asked if it would be willing to pay part or full time tuition for employees attending a community college during evening hours or other off-duty time, or on a cooperative plan. Firms in Montgomery County representing 36,075 employees out of a total 80,311 and firms in Prince Georges County representing 29,702 employees out of a total of 80,974 responded "YES" to the question. On an employment basis then, approximately 45% of the firms in Montgomery County and 37% of the firms in Prince Georges County indicated a positive attitude toward support of their employees in continuing their education while in the firm's employment.

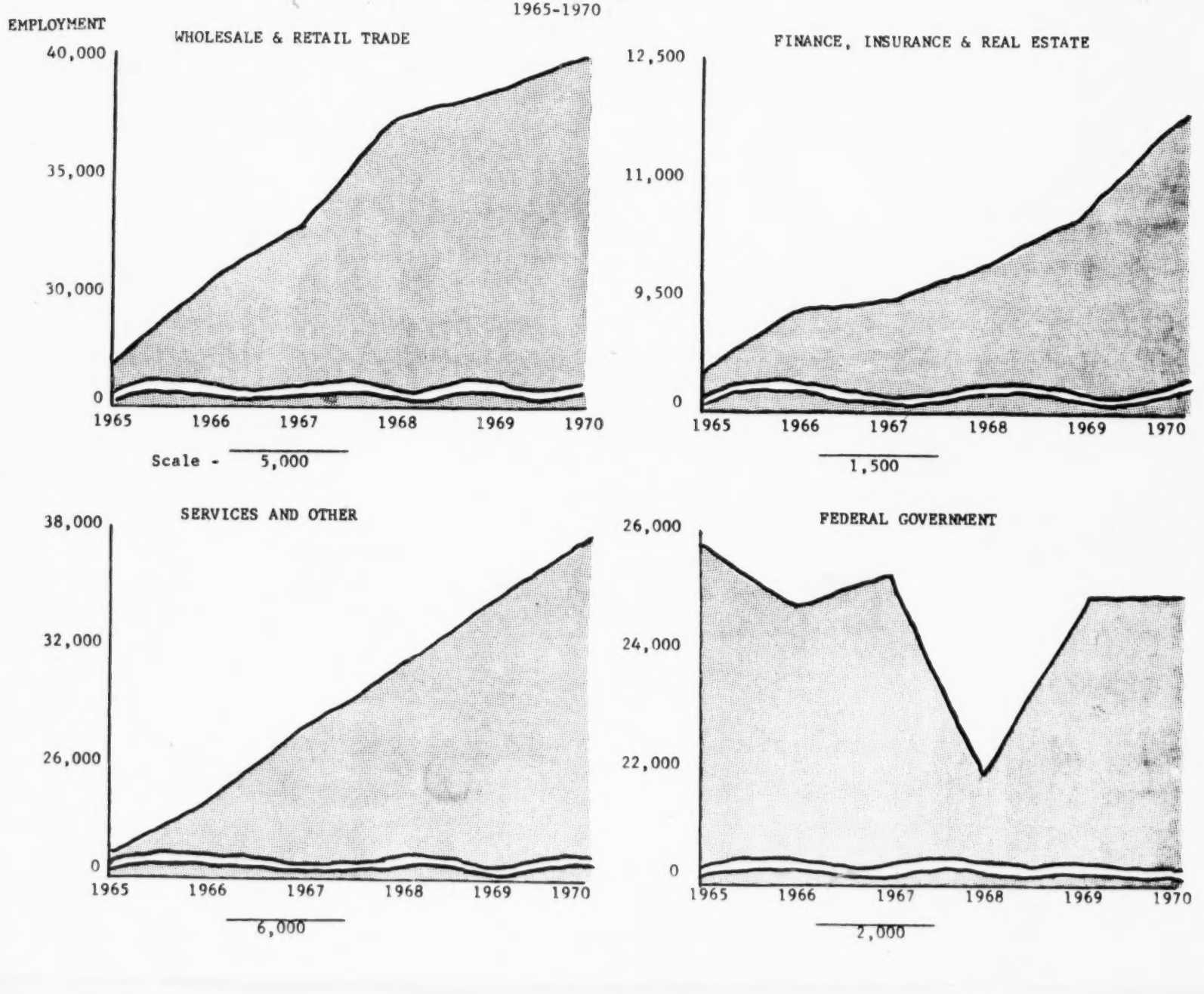
COMPUTER INFORMATION

One hundred, thirty-nine employers out of a total of 982 sampled in Montgomery County and 91 out of 908 sampled in Prince Georges County reported that they were using one or more computers. Details of the distribution of these computers by major industrial category, computer related occupations, computer orientation (disc, card, or tape), and the number of employers using time-sharing as well as model number and program language for the various computers will be found in Tables M and N for Montgomery County and Tables O and P for Prince Georges County.

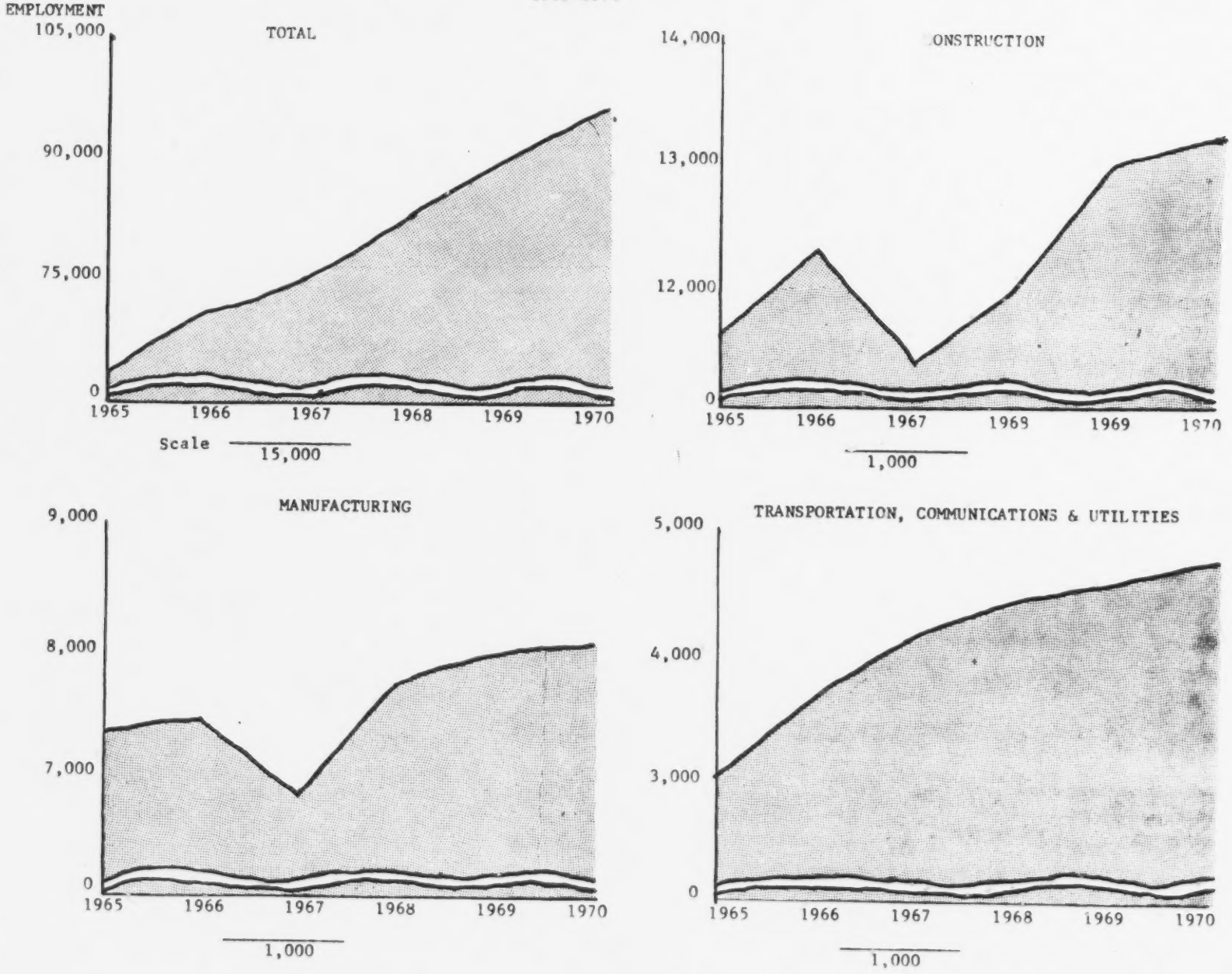
INSURED AND FEDERAL GOVERNMENT EMPLOYMENT
MONTGOMERY COUNTY
1965-1970



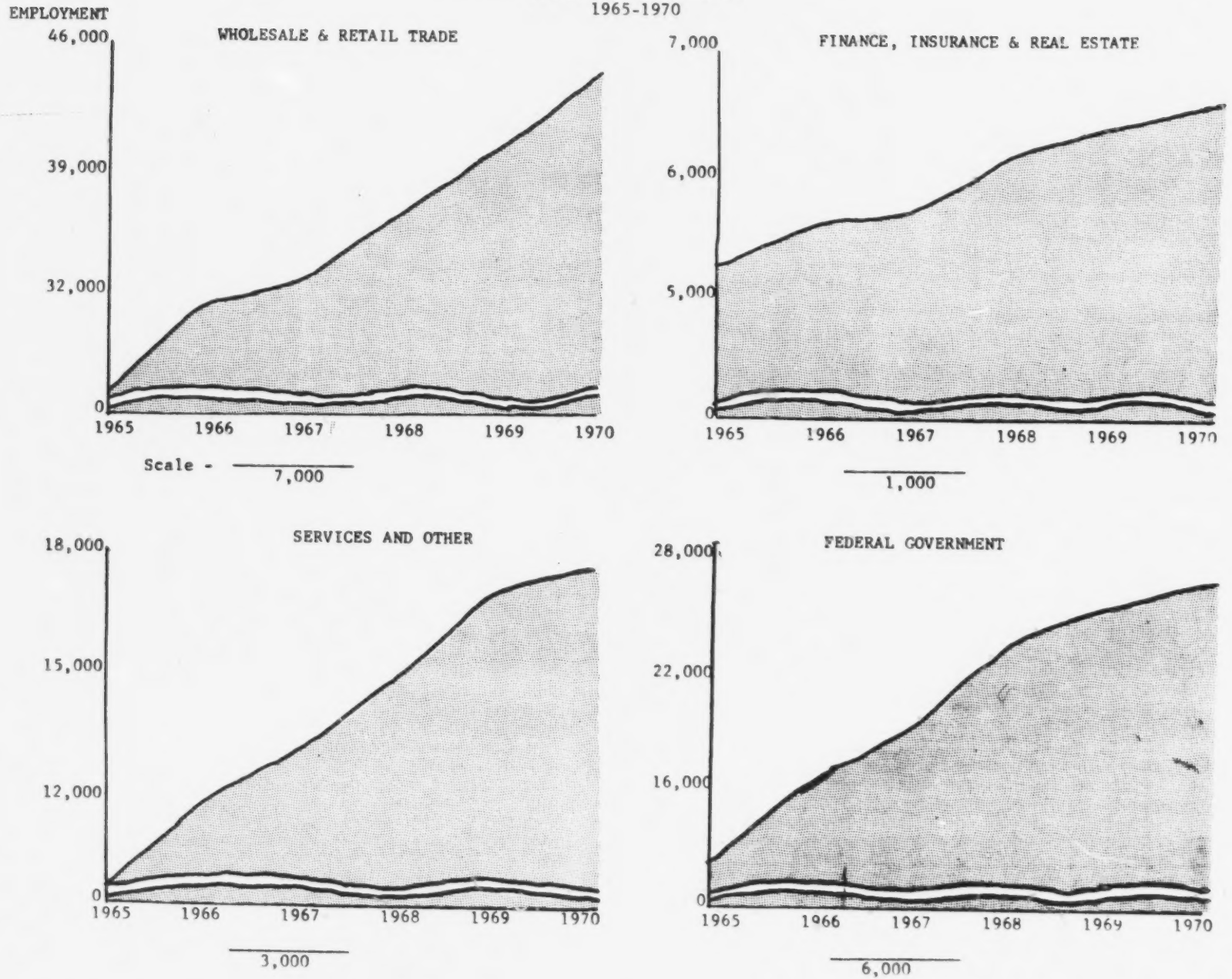
INSURED AND FEDERAL GOVERNMENT EMPLOYMENT
MONTGOMERY COUNTY
1965-1970



INSURED AND FEDERAL GOVERNMENT EMPLOYMENT
PRINCE GEORGES COUNTY
1965-1970



INSURED AND FEDERAL GOVERNMENT EMPLOYMENT
PRINCE GEORGES COUNTY
1965-1970



OCCUPATIONAL INFORMATION

Brief descriptions of each of the greatest growth occupations as determined from Tables H, I, and J follow in alphabetical order.

ACCOUNTANT

Duties: Sets up financial reporting systems and compiles and analyzes business records and programs, financial reports such as profit and loss statements, balance sheets, cost studies and tax reports.

Personal Qualifications: An accountant must be able to give close attention to detail and possess above average ability for working with numbers and solving problems.

Education: A bachelor's degree with a major in accounting and a C. P. A. certification are increasingly necessary for entering the field.

Industry Attachment: Accountants are engaged wherever business, industrial or government organizations are located. Many work for large accounting firms.

AUTO MECHANIC

Duties: Repairs cars and trucks. Estimates costs of repairs and replacements. In small shops, an auto mechanic may work on mechanical, electrical, braking, and other systems. In large shops, estimating may be done by a service manager or salesman and repairs made by mechanics who specialize in one or more systems. Some mechanics specialize in truck repair which often requires knowledge of diesel systems.

Personal Qualifications: An auto mechanic should possess medium strength, good eyesight, good hearing, and ability in handling, reaching, stooping, and crawling.

Education: High school graduates, 18 years old or older, are generally preferred by employers. They should have a driver's license and a good driving record. Pre-employment training either through hobby, vocational high school, trade school, institution or manufacturer's school, is a valuable asset.

Industry Attachment: Auto mechanics work in general or special repair shops, government and industries which maintain a fleet of vehicles such as bus lines, truck transportation companies, car rental agencies or delivery services.

BOOKKEEPER, CLERICAL

Duties: Maintains systematic, up-to-date financial records of a business, industry, public or governmental organization. A bookkeeper records day-to-day business transactions and periodically prepares summary statements showing the amount of money received and paid out. In small establishments one bookkeeper may keep a complete set of books. In larger organizations, each bookkeeper specializes in a specific phase of bookkeeping. Some may post items in accounts payable or receivable ledgers, and others may take trial balances, or prepare summary reports. Work may be done by hand with the use of desk calculator or a bookkeeping machine.

Personal Qualifications: Bookkeepers must be able to give attention to detail and have an above average aptitude for working with numbers. They should also possess analystical and adaptive ability in associating and interpreting business records.

Education: A high school diploma, preferably commercial, including bookkeeping, typing and operation of a variety of office machines is required.

Industry Attachment: Bookkeepers work in all types of industry and government.

CARPENTER

Duties: Constructs, erects, installs, and repairs structures and fixtures of wood, plywood and wallboard, using carpenter's hand and power tools.

Personal Qualifications: A carpenter should possess at least medium strength and ability to climb, stoop, reach and handle tools with dexterity. Patient attention to detail and good eyesight are also required.

Education: Completion of high school is desirable. Journeyman status is achieved through an 8,000-hour apprenticeship program. Related classroom instruction includes drafting, blue print reading, mathematics, and use of tools.

Industry Attachment: Carpenters are found primarily in construction, shipbuilding, commercial and industrial building maintenance, and home improvement companies.

CLERK, GENERAL OFFICE

Duties: Performs a variety of duties which may include receiving and supplying information by telephone, billing, and posting data in record books. Minimal typing and filing may be required for some of these clerical duties.

Personal Qualifications: A general clerk should possess courtesy, tact, judgment, organizing ability, good hearing and vision.

Education: In general, this position requires a high school diploma with some instruction in business subjects. However, some non-graduates find opportunity through cooperative training programs. Specific details must be learned on the job.

Industry Attachment: General clerks are abundant in all types of industry and government.

CLERK-TYPIST

Duties: Combines typing with the variety of duties performed by a general office clerk. Typing skill is emphasized in the preparation of statistical tables, reports, letters, and other business communications and records.

Personal Qualifications: The clerk-typist must work rapidly and accurately and possess numerical aptitude and manual dexterity.

Education: A high school diploma, preferably commercial, including a course in typing, is necessary to qualify for this position.

Industry Attachment: Clerk-typists are found in all types of industry and government.

COMPUTER PROGRAMMER – BUSINESS

Duties: Converts symbolic statement of business problems to detailed logical flow charts for coding into computer language and solution by means of automatic data processing equipment. Applies subject matter knowledge, algebra, symbolic logic and knowledge of computer capabilities to develop sequence of program steps. Translates detailed logical flow chart into language processable by the computer by selecting symbols from the coding system peculiar to given make and model of a digital computer, recording them on a worksheet compatible with the logical flow chart for subsequent transfer to punch cards or machine input tape.

Personal Qualifications: A computer programmer must possess ingenuity, imagination, aptitude for logical thinking and exacting analysis plus patience, persistence, and the ability to work with extreme accuracy.

Education: Education depends on the level of programming responsibility. Requirements range from the advanced degree level to high school completion. A degree in business administration, engineering, mathematics, or computer science is sometimes necessary. On-the-job training may be provided to personnel having previous experience with automatic data processing equipment or business record preparation.

Industry Attachment: Computer programmers are used in large establishments in all industries including government.

DRAFTSMEN

Duties: Prepares clear, complete and accurate working plans and drawings from rough or detailed sketches or notes, for engineering or manufacturing purposes.

Personal Qualifications: A draftsman should possess good eyesight and the ability to visualize spatial relationships. Manual skill is needed to manipulate a triangle, T-square and other drafting tools.

Education: Graduation from vocational or technical high school or institution with courses in mathematics, the physical sciences, and drafting are the prerequisites for this job.

Industry Attachment: Manufacturing firms, engineering and architectural consulting firms, construction companies, public utilities, and government utilize the draftsman's skills.

FOOD SERVICE WORKER

Duties: Essentially four classifications (cook, waiter/waitress, kitchen aide, and bus boy) are included in this category. Cooks prepare, season, and cook various foodstuffs. Waiters and waitresses take customers' orders, relay them to the kitchen, serve orders to patrons, and may receive payment and bring change to clients. Kitchen aides assist cooks in preparation of simpler dishes and perform scullery duties; while bus boys clear and reset tables and clean dining rooms.

Personal Qualifications: All classifications require physical stamina, ability to work under pressure and a very high order of personal cleanliness. Cooks should also have an acute sense of taste and smell. Waiters and waitresses should be able to do simple arithmetic, hear and speak clearly, and possess poise and a friendly manner.

Education: Basic training in this field may be obtained in vocational schools and in private trade schools. However, skills and proficiency are acquired through on-the-job training in employers' establishments.

Industry Attachment: Food service workers are found in restaurants, cafeterias, hotels, clubs, transportation facilities, and public institutions.

KEY PUNCH OPERATOR

Duties: Records accounting and statistical data on computer/tabulating equipment cards by punching a series of holes in the card in a specified sequence using a machine similar in operation and action to the typewriter.

Personal Qualifications: A key punch operator must possess good vision, excellent hand-eye coordination and the ability to concentrate on detail, and to perform with precision.

Education: High school or business school education is desirable and typing is necessary.

Industry Attachment: Banks, finance, insurance, transportation, utilities, trade establishments, and government operators.

MACHINIST

Duties: All-round machinists are skilled metal workers, who set up and operate a variety of machine tools to produce metal parts in accordance with blue prints and specifications. Machine tools include lathes, grinders, milling machine, boring mills, slopers, and planers. Parts must be machined to extremely accurate measurements, often closer than .001 inch, requiring the use of micrometers and other precise measuring instruments. Final finishing and assembling involve the use of small hand tools - chisels, scrapers, files. Skilled machine-tool operators are specialists who set up and operate one or two machines working to close dimensions in accordance with specifications. Semi-skilled machine tool operators perform repetitive operations in a single machine which has been set up by a skilled worker. Such work is checked by pre-set simple gages. This semi-skilled work can be learned through on-the-job training of limited duration.

Personal Qualifications: Attention to detail, high concentration, mechanical aptitude, medium strength, ability to stand for long periods, excellent reaching and handling abilities, and visual acuity are important for the machinist's job.

Education: High school or vocational school education is required. A good grasp of basic mathematics is essential. Apprentices are usually 18-25 years of age. Journeyman status is generally achieved through completion of a 4-year apprentice training program which includes 8,000 hours of shop work plus classroom instructions in blue print reading, shop mathematics, shop practices, and properties of metals.

Industry Attachment: Most machinists and skilled machine tool operators are employed in the manufacture of machinery, metal products, and transportation equipment. However, there are many machinists also employed in maintenance operations of manufacturing companies and in shops which specialize in producing machine parts to order. Semi-skilled machine tool operators are usually employed as production workers.

MANAGEMENT TRAINEE

Duties: Assists first middle, and top level managers in the various functional and administrative areas pertinent to the operation of an establishment. Trainees may serve in successive positions of increasing responsibility within an area or may be cross-trained in several such areas.

Personal Qualifications: A management trainee needs a balance of initiative, imagination and energy and the ability to analyze and solve operational and administrative problems in his area or areas. He must be able to persuade others.

Education: Employers are increasingly requiring beginning managers to have completed college. Although an able person not college trained may work his way up, his promotional opportunities may be limited. For beginning managers, a prior background of at least two years of college work in a pre-specialization curriculum, possibly supplemented be limited specialization in a preferred functional area, should prove most helpful.

Industry Attachment: All industries and government employ management trainees.

SECRETARY – EXECUTIVE

Duties: Takes dictation and transcribes notes on a typewriter. Usually relieves executive of numerous routine duties and often handles a variety of business details on her own initiative. She may supervise other stenographers, typists, and office clerical personnel.

Personal Qualifications: Executive secretaries must have discretion, good judgment, initiative, poise, alertness, and a pleasant personality.

Education: Graduation from high school with thorough grounding in stenographic skills is essential to this position plus several years of experience at lower stenographic level possibly supplemented by advanced study to include either an associate or bachelor's degree in the field of executive secretary.

Industry Attachment: Executive secretaries are found in public and private establishments of practically every type.

SECRETARY – STENOGRAPHER

Duties: Takes dictation and transcribes notes on a typewriter. The secretary-stenographer may perform other functions listed for secretary-executive above but to a more limited degree.

Personal Qualifications: A secretary-stenographer should be poised, alert, and discrete.

Education: Graduation from high school with thorough grounding in stenographic skills are necessary to qualify.

Industry Attachment: Public and private establishments of practically every type employ secretary-stenographers.

TEACHER

Duties: Using approved educational methods gives classroom instructions ranging from formal lecturing to open discussions. A teacher prepares lesson plans, supervises study, and grades papers.

Personal Qualifications: Teachers must work well with students, command respect, have ability to counsel and be able to present material in an understandable, attractive manner.

Education: A bachelor's degree with background in the subjects to be taught plus education courses to meet the requirements of state certification.

Industry Attachment: Teachers are usually employed by local government, private or church connected schools.

TEACHER'S AIDE, DAY CARE CENTER

Duties: Assists teacher in the routine aspects of instruction conducted at a day care center. Functions may consist of verifying attendance, issuing and positioning supplies, monitoring study groups and playground activities, and assisting in learning demonstrations.

Personal Qualifications: Sympathetic interest in and desire to work with young pre-grade school children are required in addition to a neat appearance and an extroverted, stable, energentic and tactful personality.

Education: While not required, a high school diploma possibly supplemented by courses in child psychology and one or more arts, crafts, or sports would prove most useful.

Industry Attachment: Teacher's aides are employed by local government or church-connected schools.

TECHNICIAN, CIVIL ENGINEERING

Duties: Assists civil engineers in the planning and construction of highways, railroads, bridges, viaducts, dams, and other structures. Technicians may estimate costs, prepare material specifications, or participate in surveying, drafting or design work; they also may assist in scheduling construction activities and inspecting work to assure conformity with blueprints and specifications.

Personal Qualifications: Technicians should possess tact, aptitude for details, imagination, good practical knowledge of time and space factors and personnel and material costs, coupled with verbal and written facility.

Education: Technical, institute, junior college, or vocational-technical school graduation with concentration on the practical phases of civil engineering including surveying, drafting, soil analysis, strength of materials, task organization and resources, schedule preparation and technical report writing.

Industry Attachment: Civil engineering technicians are employed by construction firms, engineering and architectural consulting companies, public utilities, and government.

TECHNICIAN, ELECTRONIC

Duties: Applies electronic theory, principles of electric circuits, electrical testing procedures, engineering, mathematics, physics, and related subjects to layout, build, test, troubleshoot, repair and modify development and production electronic equipment such as computers, missile control instrumentation, radar and machine-tool numerical controls.

Personal Qualifications: Electronic technicians should possess finger and manual dexterity, agility, good vision and color perception and analytical ability.

Education: Graduation from junior college, technical institute or vocational-technical school, with strong physical sciences background in electricity and electronics supplemented with mathematics and very strong emphasis on electronic diagnostic techniques and laboratory procedures in required.

Industry Attachment: Mining, manufacturing firms, transportation, utilities and communication establishments, public and private research laboratories all employ electronic technicians.

TABLE B

NONAGRICULTURAL EMPLOYMENT
BY MAJOR INDUSTRY
MONTGOMERY COUNTY, MARYLAND

Item	1960	1970*	Percent Change 1960-1970
Total Nonagricultural Employment	79,930	198,005	148.0
Manufacturing	4,555	7,895	72.0
Nonmanufacturing	75,375	190,160	152.6
Construction	8,201	15,465	88.6
Transportation-utilities	1,330	4,220	217.3
Wholesale and retail trade	20,324	39,980	97.6
Finance, insurance and real estate	4,617	11,690	153.2
Service and miscellaneous	10,403	65,560	530.2
Government	30,500	53,245	74.6

Maryland DESS Nonagricultural Industry Series 1960

*Estimated unpublished data of the Maryland Department of Employment and Social Services.

TABLE C

NONAGRICULTURAL EMPLOYMENT
BY MAJOR INDUSTRY
PRINCE GEORGES COUNTY

Item	1960	1970*	Percent Change 1960-1970
Total Nonagricultural Employment	79,466	171,060	115.3
Manufacturing	5,976	8,025	34.2
Nonmanufacturing	73,490	163,035	121.9
Construction	6,272	13,185	110.2
Transportation-utilities	1,958	5,465	179.1
Wholesale and retail trade	17,777	44,495	150.3
Finance, insurance and real estate	2,824	6,535	131.4
Service and miscellaneous	5,009	36,655	631.8
Government	39,650	56,700	43.0

Maryland DESS Nonagricultural Industry Series 1960

*Estimated unpublished data of the Maryland Department of Employment and Social Services.

TABLE D

INSURED AND FEDERAL GOVERNMENT EMPLOYMENT
IN MONTGOMERY AND PRINCE GEORGES COUNTIES
CALENDAR YEAR ANNUAL AVERAGE 1965-1970

Industry	1965	1966	1967	1968	1969	1970
			MONTGOMERY COUNTY			
Total Insured Employment	78,836	87,219	93,001	101,489	110,654	115,528
Mining and Quarrying	50	49	49	48	64	62
Construction	14,285	14,238	13,250	12,907	16,129	15,465
Manufacturing	5,765	6,307	6,510	7,413	7,765	7,844
Durable Goods	3,394	3,719	3,776	4,486	4,831	4,370
Nondurable Goods	2,371	2,588	2,734	2,927	2,934	3,474
Transportation, Communication and Utilities	2,324	3,234	3,268	3,569	3,731	3,941
Wholesale and Retail Trade	26,611	30,235	32,961	37,214	38,401	39,978
Finance, Insurance & Real Estate	8,507	9,281	9,397	9,854	10,495	11,693
Service and Other	21,294	23,874	27,566	30,484	34,069	36,545
Government (Federal)	25,772	24,793	25,318	21,840	24,859	24,895
			PRINCE GEORGES COUNTY			
Total Insured Employment	63,202	70,502	74,437	82,359	89,749	95,325
Mining and Quarrying	909	902	906	814	880	887
Construction	11,595	12,292	11,354	11,966	12,934	13,186
Manufacturing	7,327	7,439	6,804	7,789	7,965	8,024
Durable Goods	4,149	4,155	3,570	4,059	3,570	3,476
Nondurable Goods	3,178	3,284	3,234	3,730	4,395	4,548
Transportation, Communication and Utilities	2,999	3,613	4,127	4,405	4,577	4,723
Wholesale and Retail Trade	25,853	29,068	32,467	36,299	40,175	44,492
Finance, Insurance & Real Estate	5,254	5,578	5,658	6,101	6,340	6,533
Service and Other	9,285	11,611	13,122	14,985	16,878	17,480
Government (Federal)	12,354	15,917	18,686	23,048	24,641	25,846

A NOTE CONCERNING THE USE OF OCCUPATIONAL DATA FROM THIS SURVEY

In the following tables, the projected needs of employers in the Montgomery and Prince Georges Counties are only as valid as the employers' estimates. Some are influenced by what employers would like their future employment to be. In past surveys the results have reflected, in general, an over-optimistic outlook. Consequently users of the survey data should proceed with caution, especially where growth or replacement needs appear unusually high when compared with data from other sources.

Use of sample data is another cause for distortion in results. Since information has been inflated to include those employers not in the survey, results could be either too high or too low.

Data in Tables F, G, K, and L may not add to totals due to insufficient information for certain occupations. These occupations are listed, but show no employment data.

EMPLOYMENT IN SURVEYED OCCUPATIONS
MONTGOMERY AND PRINCE GEORGE'S COUNTIES
(1971-1976)

Table E

Occupation	Two-County Employment			Expansion Needs in		Replacement Needs in		Total Additional Requirements in		Promotions into Occupations in	
	February 1971	February 1973	February 1976	2 Years	5 Years	2 Years	5 Years	2 Years	5 Years	2 Years	5 Years
TOTAL OF SURVEYED OCCUPATIONS	161,285	182,151	204,116	20,866	42,831	38,736	96,840	59,602	139,671	8,034	12,558
BUSINESS OCCUPATIONS	78,651	88,263	98,729	9,612	20,078	20,824	52,060	30,436	72,138	4,281	6,599
Accountant	2,490	2,937	3,592	447	1,102	284	710	731	1,812	89	177
Accountant Assistant	996	1,125	1,316	129	320	176	440	305	760	102	160
Artist, Commercial	405	519	638	114	233	128	320	242	553	8	10
Bookkeeper, Clerical	4,060	4,661	5,217	601	1,157	840	2,100	1,441	3,257	201	328
Bookkeeper, Machine	740	808	913	68	173	76	190	144	363	69	152
Business Machine Operator	608	701	857	93	249	130	325	223	574	83	126
Buyer or Purchasing Agent	1,069	1,243	1,347	174	278	108	270	282	548	66	130
Personnel Worker	1,548	1,842	2,128	294	580	234	585	528	1,165	81	112
BUSINESS MANAGEMENT											
Food Service Manager	1,265	1,348	1,501	83	236	498	1,245	581	1,481	161	290
Hotel-Motel Manager	155	176	185	21	30	4	10	25	40	4	6
Nursery Manager (Horticultural)	114	194	239	80	125	10	25	90	150	27	29
Printing Production Manager	140	164	173	24	33	24	60	48	93	11	13
Service Station Manager	574	642	665	68	91	36	90	104	181	46	46
Transportation-Traffic Manager	153	150	164	- 3	11	22	55	19	66	19	28
CLERICAL											
Clerk, General Office	13,642	14,883	16,275	1,241	2,633	3,636	9,090	4,877	11,723	264	372
Clerk-Typist	9,907	11,251	12,767	1,344	2,860	3,246	8,115	4,590	10,975	220	374
Secretary-Executive	3,452	3,929	4,362	477	910	1,048	2,620	1,525	3,530	114	194
Secretary-Legal	1,006	1,152	1,276	146	270	208	520	354	790	-	-
Secretary-Medical	812	880	918	68	106	148	370	216	476	12	24
Secretary-Stenographer	5,129	5,690	6,209	561	1,080	1,384	3,460	1,945	4,540	161	204
Stenotype Operator	80	90	94	10	14	14	35	24	49	-	-
SALES											
Salesman, Outside	5,501	6,497	8,014	996	2,513	804	2,010	1,800	4,523	253	443
Salesperson, Inside	23,864	26,071	28,224	2,207	4,360	7,280	18,200	9,487	22,560	1,908	2,834
TRAINEE											
Management Trainee	842	1,158	1,461	316	619	420	1,050	736	1,669	315	414
Marketing Trainee	24	40	47	16	23	-	-	16	23	-	-
Real Estate and Insurance Trainee	75	112	147	37	72	66	165	103	237	67	133

EMPLOYMENT IN SURVEYED OCCUAPTIONS
MONTGOMERY AND PRINCE GEORGE'S COUNTIES
(1971-1976)
(Contd.)

Occupation	Two-County Employment			Expansion Needs in		Replacement Needs in		Total Additional Requirements in		Promotions into Occupations in	
	February 1971	February 1973	February 1976	2 Years	5 Years	2 Years	5 Years	2 Years	5 Years	2 Years	5 Years
DATA PROCESSING OCCUPATIONS	6,846	8,470	10,395	1,624	3,549	1,538	3,845	3,162	7,394	591	904
Computer Operator	997	1,189	1,358	192	361	238	595	430	956	111	174
Computer Operations Supervisor	264	316	334	52	70	24	60	76	130	20	31
Computer Programmer-Business	1,583	1,991	2,466	408	883	262	655	670	1,538	82	130
Computer Programmer-Scientific	479	668	880	189	401	86	215	275	616	49	92
Data Control Clerk	341	493	652	152	311	96	240	248	551	61	93
Key Punch Operator	1,854	2,145	2,790	291	936	622	1,555	913	2,491	217	320
Systems Analyst	1,227	1,533	1,774	306	547	178	445	484	992	51	64
Tabulating Machine Operator	101	135	141	34	40	32	80	66	120	-	-
HEALTH OCCUPATIONS	5,032	5,667	6,154	635	1,122	918	2,295	1,553	3,417	92	166
Dental Assistant	369	407	446	38	77	24	60	62	137	-	-
Dental Hygienist	74	78	82	4	8	16	40	20	48	-	-
Dental Laboratory Technician	148	238	330	90	182	-	-	90	182	-	-
Medical Assistant	497	517	522	20	25	52	130	72	155	2	7
Medical Laboratory Technician	506	574	612	68	106	106	265	174	371	2	2
Medical Technologist	171	185	219	14	48	24	60	38	108	8	14
Nurse, Licensed Practical	560	711	761	151	201	204	510	355	711	59	88
Nurse, Registered	2,577	2,784	2,993	207	416	474	1,185	681	1,601	21	55
Radiological (X-ray) Technician	130	173	189	43	59	18	45	61	104	-	-
SERVICE OCCUPATIONS	24,622	26,065	27,934	1,443	3,312	1,990	4,975	3,433	8,287	345	462
PUBLIC SERVICE											
Correction Aide (Penal)	170	186	235	16	65	32	80	48	145	-	-
Fire Safety Officer	307	325	328	18	21	44	110	62	131	112	114
Law Enforcement Officer	2,992	3,178	3,468	186	476	218	545	404	1,021	47	74
Library Assistant	720	787	861	67	141	230	575	297	716	19	27
Recreation Leader	611	760	979	149	368	36	90	185	458	28	58
Social Welfare Assistant	302	335	390	33	88	66	165	99	253	-	17
Teacher	16,916	17,464	18,067	548	1,151	948	2,370	1,496	3,521	58	84
Teacher's Aide-School	829	1,053	1,281	224	452	182	455	406	907	7	9
Teacher's Aide-Day Care Center	560	732	1,002	172	442	140	350	312	792	4	6
Urban Planning Assistant	21	44	93	23	72	20	50	43	122	12	12
PRIVATE SERVICE											
Airplane Pilot	89	88	105	- 1	16	-	-	- 1	16	36	36
Air Traffic Controller	77	77	77	-	-	-	-	-	-	-	-
Industrial Security Officer	892	900	912	8	20	74	185	82	205	-	3
Mortician	96	96	96	-	-	-	-	-	-	22	22
Private Investigator	40	40	40	-	-	-	-	-	-	-	-

EMPLOYMENT IN SURVEYED OCCUPATIONS
MONTGOMERY AND PRINCE GEORGE'S COUNTIES
(1971-1976)
(Contd.)

Occupation	Two-County Employment			Expansion Needs in		Replacement Needs in		Total Additional Requirements in		Promotions into Occupations in	
	February 1971	February 1973	February 1976	2 Years	5 Years	2 Years	5 Years	2 Years	5 Years	2 Years	5 Years
TECHNICAL OCCUPATIONS	6,115	7,150	8,202	1,035	2,087	1,110	2,775	2,145	4,862	284	470
Cartographer & Cartographic Tech.	1,083	1,083	1,090	-	7	104	260	104	267	-	-
Technician, Communications	391	500	528	109	137	112	280	221	417	34	58
Technician, Architectural	194	215	241	21	47	32	80	53	127	11	11
Technician, Chemical Engineering	133	139	155	6	22	14	35	20	57	2	2
Technician, Civil Engineering	803	1,299	1,622	496	819	84	210	580	1,029	62	75
Technician, Electronic	1,745	2,027	2,398	282	653	268	670	550	1,323	49	79
Technician, General Engineering	1,153	1,158	1,238	5	85	240	600	245	685	102	209
Technician, Mechanical Engineering	365	411	508	46	143	162	405	208	548	13	25
Technician, Nuclear or Radiation	55	67	84	12	29	4	10	16	39	-	-
Technician, Sanitation or Environmental	193	251	338	58	145	90	225	148	370	11	11
TRADES AND INDUSTRIAL OCCUPATIONS	40,019	46,536	52,702	6,517	12,683	12,356	30,890	18,873	43,573	2,441	3,957
Air Conditioning Mechanic	953	1,178	1,603	225	650	336	840	561	1,490	134	209
Aircraft Mechanic	45	51	52	6	7	-	-	6	7	-	-
Appliance Repairman	992	1,164	1,313	172	321	102	255	274	576	40	44
Auto Mechanic	3,542	4,129	4,542	587	1,000	790	1,975	1,377	2,975	398	506
Auto Body Repairman	1,032	1,247	1,434	215	402	312	780	527	1,182	34	36
Carpenter	4,172	5,083	5,916	911	1,744	2,806	7,015	3,717	8,759	151	261
Cosmetologist	1,186	1,272	1,247	86	61	32	80	118	141	118	380
Draftsman	1,505	2,184	2,945	679	1,440	162	405	841	1,845	36	56
Electrician	2,456	2,830	3,252	374	796	154	385	528	1,181	161	217
Electronic Repairman	1,119	1,315	1,491	196	372	162	405	358	777	74	127
Engineering Aide	368	437	516	69	148	80	200	149	348	15	34
Food Service Worker	13,509	15,115	16,391	1,606	2,882	5,816	14,540	7,422	17,422	830	1,213
Landscaper	667	837	935	170	268	250	625	420	893	32	37
Machinist	1,050	1,341	1,861	291	811	178	445	469	1,256	67	98
PRINTING TRADES											
Printing, Binder Operator	659	759	883	100	224	74	185	174	409	42	117
Printing Estimator	44	49	55	5	11	-	-	5	11	6	11
Printing Pressman	1,070	1,248	1,379	178	309	82	205	260	514	88	151
Printing, Process Cameraman	645	692	721	47	76	30	75	77	151	12	20
Printing, Typesetter	270	384	432	114	162	32	80	146	242	32	53
OTHER OCCUPATIONS											
Service Station Attendant	2,938	3,192	3,413	254	475	462	1,155	716	1,630	104	260
Sheet Metal Worker	1,418	1,594	1,851	176	433	412	1,030	588	1,463	46	80
Welder	379	435	470	56	91	84	210	140	301	21	47

EMPLOYMENT IN SURVEYED OCCUPATIONS
MONTGOMERY COUNTY
(1971-1976)

Table F

Occupation	Employment			Expansion Needs in		Replacement Needs in		Total Additional Requirements in		Promotions into Occupations in	
	February 1971	February 1973	February 1976	2 Years	5 Years	2 Years	5 Years	2 Years	5 Years	2 Years	5 Years
TOTAL OF SURVEYED OCCUPATIONS	80,311	92,296	105,154	11,985	24,843	18,952	47,380	30,937	72,223	4,448	7,241
BUSINESS OCCUPATIONS	40,103	45,885	51,765	5,782	11,662	10,004	25,010	15,786	36,672	2,225	3,495
Accountant	1,618	1,941	2,531	323	913	238	595	561	1,508	72	152
Accountant Assistant	672	751	908	79	236	138	345	217	581	81	133
Artist, Commercial	155	199	258	44	103	48	120	92	223	-	2
Bookkeeper, Clerical	2,178	2,655	2,979	477	801	474	1,185	951	1,986	149	208
Bookkeeper, Machine	440	515	581	75	141	52	130	127	271	65	145
Business Machine Operator	455	547	694	92	239	92	230	184	469	80	121
Buyer or Purchasing Agent	660	798	872	138	212	82	205	220	417	50	75
Personnel Worker	818	1,068	1,269	250	451	148	370	398	821	61	84
BUSINESS MANAGEMENT											
Food Service Manager	708	748	811	40	103	220	550	260	653	74	139
Hotel-Motel Manager	84	89	94	5	10	4	10	9	20	2	4
Nursery Manager (Horticultural)	33	114	120	81	87	-	-	81	87	25	27
Printing Production Manager	63	77	84	14	21	20	50	34	71	10	12
Service Station Manager	259	278	280	19	21	28	70	47	91	23	23
Transportation-Traffic Manager	76	78	80	2	4	22	55	24	59	12	21
CLERICAL											
Clerk, General Office	7,485	8,399	9,219	914	1,734	1,762	4,405	2,676	6,139	159	236
Clerk-Typist	3,815	4,542	5,343	727	1,528	1,322	3,305	2,049	4,833	150	218
Secretary-Executive	1,727	2,039	2,345	312	618	392	980	704	1,598	97	166
Secretary-Legal	274	300	326	26	52	94	235	120	287	-	-
Secretary-Medical	275	311	346	36	71	72	180	108	251	5	9
Secretary-Stenographer	3,300	3,665	4,054	365	754	1,044	2,610	1,409	3,364	147	180
Stenotype Operator	34	40	44	6	10	-	-	6	10	-	-
SALES											
Salesman, Outside	3,046	3,505	4,247	459	1,201	446	1,115	905	2,316	112	197
Salesperson, Inside	11,417	12,561	13,469	1,144	2,052	3,050	7,625	4,194	9,677	700	1,071
TRAINEE											
Management Trainee	429	536	644	107	215	190	475	297	690	86	141
Marketing Trainee	10	21	26	11	16	-	-	11	16	-	-
Real Estate and Insurance Trainee	72	108	141	36	69	66	165	102	234	65	131

EMPLOYMENT IN SURVEYED OCCUPATIONS
MONTGOMERY COUNTY
(1971-1976)
(Contd.)

Occupation	Employment			Expansion Needs in		Replacement Needs in		Total Additional Requirements in		Promotions into Occupations in	
	February 1971	February 1973	February 1976	2 Years	5 Years	2 Years	5 Years	2 Years	5 Years	2 Years	5 Years
DATA PROCESSING OCCUPATIONS	4,024	5,211	6,818	1,187	2,794	918	2,295	2,105	5,089	459	730
Computer Operator	561	694	823	133	26[illegible]	150	375	283	637	92	153
Computer Operations Supervisor	169	208	227	39	58	20	50	59	108	15	26
Computer Programmer-Business	979	1,330	1,779	351	800	132	330	483	1,130	69	112
Computer Programmer-Scientific	287	465	647	178	360	36	90	214	450	47	89
Data Control Clerk	224	327	434	103	210	70	175	173	385	58	89
Key Punch Operator	870	1,084	1,660	214	790	376	940	590	1,730	130	205
Systems Analyst	861	1,033	1,174	172	313	114	285	286	598	48	56
Tabulating Machine Operator	73	70	74	- 3	1	20	50	17	51	-	-
HEALTH OCCUPATIONS	2,384	2,731	3,068	347	684	328	820	675	1,504	36	46
Dental Assistant	79	80	82	1	3	-	-	1	3	-	-
Dental Hygienist	67	69	72	2	5	8	20	10	25	-	-
Dental Laboratory Technician	148	238	330	90	182	-	-	90	182	-	-
Medical Assistant	152	163	163	11	11	-	-	11	11	-	-
Medical Laboratory Technician	239	267	305	28	66	22	55	50	121	2	2
Medical Technologist	147	161	195	14	48	16	40	30	88	6	7
Nurse, Licensed Practical	296	381	405	85	109	74	185	159	294	26	35
Nurse, Registered	1,195	1,309	1,440	114	245	208	520	322	765	2	2
Radiological (X-ray) Technician	61	63	76	2	15	-	-	2	15	-	-
SERVICE OCCUPATIONS	9,912	10,718	11,607	806	1,695	818	2,045	1,624	3,740	179	214
PUBLIC SERVICE											
Correction Aide (Penal)	-	-	-	-	-	-	-	-	-	-	-
Fire Safety Officer	188	205	208	17	20	40	100	57	120	111	111
Law Enforcement Officer	1,566	1,735	1,998	169	432	118	295	287	727	25	49
Library Assistant	254	289	339	35	85	46	115	81	200	17	23
Recreation Leader	87	106	134	19	47	14	35	33	82	-	-
Social Welfare Assistant	60	75	96	15	36	-	-	15	36	-	-
Teacher	7,357	7,699	8,025	342	668	496	1,240	838	1,908	-	-
Teacher's Aide-School	280	461	601	181	321	100	250	281	571	-	-
Teacher's Aide-Day Care Center	-	-	-	-	-	-	-	-	-	-	-
Urban Planning Assistant	11	34	74	23	63	-	-	23	63	2	2
PRIVATE SERVICE											
Airplane Pilot	8	7	15	- 1	7	-	-	- 1	7	-	-
Air Traffic Controller	-	-	-	-	-	-	-	-	-	-	-
Industrial Security Officer	41	43	48	2	7	4	10	6	17	-	[illegible]
Mortician	56	56	56	-	-	-	-	-	-	22	22
Private Investigator	-	-	-	-	-	-	-	-	-	-	-

EMPLOYMENT IN SURVEYED OCCUPATIONS
MONTGOMERY COUNTY
(1971-1976)
(Contd.)

Occupation	Employment			Expansion Needs in		Replacement Needs in		Total Additional Requirements in		Promotions into Occupations in	
	February 1971	February 1973	February 1976	2 Years	5 Years	2 Years	5 Years	2 Years	5 Years	2 Years	5 Years
TECHNICAL OCCUPATIONS	4,489	4,994	5,615	505	1,126	818	2,045	1,323	3,171	203	379
Cartographer & Cartographic Tech.	1,058	1,058	1,058	-	-	100	250	100	250	-	-
Technician, Communications	183	220	236	37	53	40	100	77	153	21	36
Technician, Architectural	129	150	160	21	31	22	55	43	86	11	11
Technician, Chemical Engineering	44	50	58	6	14	8	20	14	34	2	2
Technician, Civil Engineering	149	233	280	84	131	30	75	114	206	18	31
Technician, Electronic	1,404	1,674	1,973	270	569	226	565	496	1,134	47	76
Technician, General Engineering	1,046	1,034	1,109	- 12	63	178	445	166	508	85	192
Technician, Mechanical Engineering	284	321	396	37	112	152	380	189	492	13	25
Technician, Nuclear or Radiation	53	65	82	12	29	4	10	16	39	-	-
Technician, Sanitation or Environmental	139	189	263	50	124	58	145	108	269	6	6
TRADES AND INDUSTRIAL OCCUPATIONS	19,399	22,757	26,281	3,358	6,882	6,066	15,165	9,424	22,047	1,346	2,377
Air Conditioning Mechanic	640	828	1,170	188	530	236	590	424	1,120	87	126
Aircraft Mechanic	26	32	33	6	7	-	-	6	7	-	-
Applicance Repairman	349	403	428	54	79	68	170	122	249	40	42
Auto Mechanic	1,739	2,034	2,265	295	526	364	910	659	1,436	149	190
Auto Body Repairman	343	416	496	73	153	88	220	161	373	15	15
Carpenter	2,295	3,020	3,697	725	1,402	1,174	2,935	1,899	4,337	135	226
Cosmetologist	404	450	348	46	- 56	26	65	72	9	6	268
Draftsman	756	930	1,121	174	365	120	300	294	665	25	42
Electrician	1,365	1,629	1,925	264	560	74	185	338	745	94	149
Electronic Repairman	812	964	1,053	152	241	86	215	238	456	17	20
Engineering Aide	144	198	263	54	119	16	40	70	159	8	27
Food Service Worker	5,769	6,624	7,359	855	1,590	2,816	7,040	3,671	8,630	483	755
Landscaper	440	454	477	14	37	82	205	96	242	7	11
Machinist	684	919	1,377	235	693	102	255	337	948	61	92
PRINTING TRADES											
Printing, Binder Operator	257	309	376	52	119	70	175	122	294	36	86
Printing Estimator	34	39	45	5	11	-	-	5	11	6	11
Printing Pressman	618	583	645	- 35	27	66	165	31	192	46	87
Printing, Process Cameraman	219	230	255	11	36	26	65	37	101	10	18
Printing, Typesetter	171	156	148	- 15	- 23	12	30	- 3	7	16	21
OTHER OCCUPATIONS											
Service Station Attendant	1,438	1,534	1,600	96	162	336	840	432	1,002	84	140
Sheet Metal Worker	700	800	983	100	283	258	645	358	928	7	13
Welder	196	205	217	9	21	46	115	55	136	14	38

EMPLOYMENT IN SURVEYED OCCUPATIONS
PRINCE GEORGE'S COUNTY
(1971-1976)

Table G

Occupation	Employment			Expansion Needs in		Replacement Needs in		Total Additional Requirements in		Promotions into Occupations in	
	February 1971	February 1973	February 1976	2 Years	5 Years	2 Years	5 Years	2 Years	5 Years	2 Years	5 Years
TOTAL OF SURVEYED OCCUPATIONS	80,974	89,855	98,962	8,881	17,988	19,784	49,460	28,665	67,448	3,586	5,317
BUSINESS OCCUPATIONS	38,548	42,378	46,964	3,830	8,415	10,820	27,050	14,650	35,466	2,056	3,104
Accountant	872	996	1,061	124	189	46	115	170	304	17	25
Accountant Assistant	324	374	408	50	84	38	95	88	179	21	27
Artist, Commercial	250	320	380	70	130	80	200	150	330	8	8
Bookkeeper, Clerical	1,882	2,006	2,238	124	356	366	915	490	1,271	52	120
Bookkeeper, Machine	300	293	332	- 7	32	24	60	17	92	4	7
Business Machine Operator	153	154	163	1	10	38	95	39	105	3	5
Buyer or Purchasing Agent	409	445	475	36	66	26	65	62	131	16	55
Personnel Worker	730	774	859	44	129	86	215	130	344	20	28
BUSINESS MANAGEMENT											
Food Service Manager	557	600	690	43	133	278	695	321	828	87	151
Hotel-Motel Manager	71	87	91	16	20	-	-	16	20	2	2
Nursery Manager (Horticultural)	81	80	119	- 1	38	10	25	9	63	2	2
Printing Production Manager	77	87	89	10	12	4	10	14	22	1	1
Service Station Manager	315	364	385	49	70	8	20	57	90	23	23
Transportation-Traffic Manager	77	72	84	- 5	7	-	-	- 5	7	7	7
CLERICAL											
Clerk, General Office	6,157	6,484	7,056	327	899	1,874	4,685	2,201	5,584	105	136
Clerk-Typist	6,092	6,709	7,424	617	1,332	1,924	4,810	2,541	6,142	70	156
Secretary-Executive	1,725	1,890	2,017	165	292	656	1,640	821	1,932	17	28
Secretary-Legal	732	852	950	120	218	114	285	234	503	-	-
Secretary-Medical	537	569	572	32	35	76	190	108	225	7	15
Secretary-Stenographer	1,829	2,025	2,155	196	326	340	850	536	1,176	14	24
Stenotype Operator	46	50	50	4	4	14	35	18	39	-	-
SALES											
Salesman, Outside	2,455	2,992	3,767	537	1,312	358	895	895	2,207	141	246
Salesperson, Inside	12,447	13,510	14,755	1,063	2,308	4,230	10,575	5,293	12,883	1,208	1,763
TRAINEE											
Management Trainee	413	622	817	209	404	203	575	439	979	229	273
Marketing Trainee	14	19	21	5	7	-	-	5	7	-	-
Real Estate and Insurance Trainee	3	4	6	1	3	-	-	1	3	2	2

EMPLOYMENT IN SURVEYED OCCUPATIONS
PRINCE GEORGE'S COUNTY
(1971-1976)
(Contd.)

Occupation	Employment			Expansion Needs in		Replacement Needs in		Total Additional Requirements in		Promotions into Occupations in	
	February 1971	February 1973	February 1976	2 Years	5 Years	2 Years	5 Years	2 Years	5 Years	2 Years	5 Years
DATA PROCESSING OCCUPATIONS	2,822	3,259	3,577	437	755	620	1,550	1,057	2,305	132	174
Computer Operator	436	495	535	59	99	88	220	147	319	19	21
Computer Operations Supervisor	95	108	107	13	12	4	10	17	22	5	5
Computer Programmer-Business	604	661	687	57	83	130	325	187	408	13	18
Computer Programmer-Scientific	192	203	233	11	41	50	125	61	166	2	3
Data Control Clerk	117	166	218	49	101	26	65	75	166	3	4
Key Punch Operator	984	1,061	1,130	77	146	246	615	323	761	87	115
Systems Analyst	366	500	600	134	234	64	160	198	394	3	8
Tabulating Machine Operator	28	65	67	37	39	12	30	49	69	-	-
HEALTH OCCUPATIONS	2,648	2,936	3,086	288	438	590	1,475	878	1,913	56	120
Dental Assistant	290	327	364	37	74	24	60	61	134	-	-
Dental Hygienist	7	9	10	2	3	8	20	10	23	-	-
Dental Laboratory Technician	-	-	-	-	-	-	-	-	-	-	-
Medical Assistant	345	354	359	9	14	52	130	61	144	2	7
Medical Laboratory Technician	267	307	307	40	40	84	210	124	250	-	-
Medical Technologist	24	24	24	-	-	8	20	8	20	2	7
Nurse, Licensed Practical	264	330	356	66	92	130	325	196	417	33	53
Nurse, Registered	1,382	1,475	1,553	93	171	266	665	359	836	19	53
Radiological (X-ray) Technician	69	110	113	41	44	18	45	59	89	-	-
SERVICE OCCUPATIONS	14,710	15,347	16,327	637	1,617	1,172	2,930	1,809	4,547	166	248
PUBLIC SERVICE											
Correction Aide (Penal)	170	186	235	16	65	32	80	48	145	-	-
Fire Safety Officer	119	120	120	1	1	4	10	5	11	1	3
Law Enforcement Officer	1,426	1,443	1,470	17	44	100	250	117	294	22	25
Library Assistant	466	498	522	32	56	184	460	216	516	2	4
Recreation Leader	524	654	845	130	321	22	55	152	376	28	58
Social Welfare Assistant	242	260	294	18	52	66	165	84	217	-	17
Teacher	9,559	9,765	10,042	206	483	452	1,130	658	1,613	58	84
Teacher's Aide-School	549	592	680	43	131	82	205	125	336	7	9
Teacher's Aide-Day Care Center	-	-	-	-	-	-	-	-	-	-	-
Urban Planning Assistant	10	10	19	-	9	20	50	20	59	10	10
PRIVATE SERVICE											
Airplane Pilot	81	81	90	-	9	-	-	-	9	36	36
Air Traffic Controller	77	77	77	-	-	-	-	-	-	-	-
Industrial Security Officer	851	857	864	6	13	70	175	76	188	-	-
Mortician	40	40	40	-	-	-	-	-	-	-	-
Private Investigator	40	40	40	-	-	-	-	-	-	-	-

EMPLOYMENT IN SURVEYED OCCUPATIONS
PRINCE GEORGE'S COUNTY
(1971-1976)
(Contd.)

Occupation	Employment			Expansion Needs in		Replacement Needs in		Total Additional Requirements in		Promotions into Occupations in	
	February 1971	February 1973	February 1976	2 Years	5 Years	2 Years	5 Years	2 Years	5 Years	2 Years	5 Years
TECHNICAL OCCUPATIONS	1,626	2,156	2,587	530	961	292	730	822	1,691	81	91
Cartographer & Cartographic Tech.	25	25	32	-	7	4	10	4	17	-	-
Technician, Communications	208	280	292	72	84	72	180	144	264	13	22
Technician, Architectural	65	65	81	-	16	10	25	10	41	-	-
Technician, Chemical Engineering	89	89	97	-	8	6	15	6	23	-	-
Technician, Civil Engineering	654	1,066	1,342	412	688	54	135	466	823	44	44
Technician, Electronic	341	353	425	12	84	42	105	54	189	2	3
Technician, General Engineering	107	124	129	17	22	62	155	79	177	17	17
Technician, Mechanical Engineering	81	90	112	9	31	10	25	19	56	-	-
Technician, Nuclear or Radiation	2	2	2	-	-	-	-	-	-	-	-
Technician, Sanitation or Environmental	54	62	75	8	21	32	80	40	101	5	5
TRADES AND INDUSTRIAL OCCUPATIONS	20,620	23,779	26,421	3,159	5,801	6,290	15,725	9,449	21,526	1,095	1,580
Air Conditioning Mechanic	313	350	433	37	120	100	250	137	370	47	83
Aircraft Mechanic	19	19	19	-	-	-	-	-	-	-	-
Appliance Repairman	643	761	885	118	242	34	85	152	327	-	2
Auto Mechanic	1,803	2,095	2,277	292	474	426	1,065	718	1,539	249	316
Auto Body Repairman	689	831	938	142	249	224	560	366	809	19	21
Carpenter	1,877	2,063	2,219	186	342	1,632	4,080	1,818	4,422	16	35
Cosmetologist	782	822	899	40	117	6	15	46	132	112	112
Draftsman	749	1,254	1,824	505	1,075	42	105	547	1,180	11	14
Electrician	1,091	1,201	1,327	110	236	80	200	190	436	67	68
Electronic Repairman	307	351	438	44	131	76	190	120	321	57	107
Engineering Aide	224	239	253	15	29	64	160	79	189	7	7
Food Service Worker	7,740	8,491	9,032	751	1,292	3,000	7,500	3,751	8,792	347	458
Landscaper	227	383	458	156	231	168	420	324	651	25	26
Machinist	366	422	484	56	118	76	190	132	308	6	6
PRINTING TRADES											
Printing, Binder Operator	402	450	507	48	105	4	10	52	115	6	31
Printing Estimator	10	10	10	-	-	-	-	-	-	-	-
Printing Pressman	452	665	734	213	282	16	40	229	322	42	64
Printing, Process Cameraman	426	462	466	36	40	4	10	40	50	2	2
Printing, Typesetter	99	228	284	129	185	20	50	149	235	16	32
OTHER OCCUPATIONS											
Service Station Attentant	1,500	1,658	1,813	158	313	126	315	284	628	20	120
Sheet Metal Worker	718	794	868	76	150	154	385	230	535	39	67
Welder	183	230	253	47	70	38	95	85	165	7	9

TABLE H

MONTGOMERY AND PRINCE GEORGES COUNTIES
OCCUPATIONS REFLECTING GREATEST GROWTH AND TOTAL REQUIREMENTS
IN PERIOD 1971-1976

Occupation	5-Year Growth	Rank	Total Additional 1/ Requirements	Rank
Salesperson, Inside	4,368	1	22,560	1
Food Service Worker	2,882	2	17,422	2
Clerk-Typist	2,860	3	10,975	4
Clerk, General Office	2,633	4	11,723	3
Salesman, Outside	2,513	5	4,523	7
Carpenter	1,744	6	8,759	5
Draftsman	1,440	7	1,845	13
Bookkeeper, Clerical	1,157	8	3,257	10
Teacher	1,151	9	3,521	9
Accountant	1,102	10	1,812	14
Secretary-Stenographer	1,080	11	4,540	6
Auto Mechanic	1,000	12	2,975	11
Key Punch Operator	936	13	2,491	12
Secretary-Executive	910	14	3,530	8
Computer Programmer-Business	883	15	1,538	18 2/

1/ Includes estimated 5-year growth plus 5-year replacement needs.

2/ Reflects rank in list of all surveyed occupations. Consequently, may exceed the number of jobs listed here.

TABLE I

MONTGOMERY COUNTY
OCCUPATIONS REFLECTING GREATEST GROWTH AND TOTAL REQUIREMENTS
IN PERIOD 1971-1976

Occupation	5-Year Growth	Rank	Total Additional 1/ Requirements	Rank
Salesperson, Inside	2,052	1	9,677	1
Clerk, General Office	1,734	2	6,139	3
Food Service Worker	1,590	3	8,630	2
Clerk-Typist	1,528	4	4,833	4
Carpenter	1,402	5	4,337	5
Salesman, Outside	1,201	6	2,316	7
Accountant	913	7	1,508	12
Bookkeeper, Clerical	801	8	1,986	8
Computer Programmer-Business	800	9	1,130	15
Key Punch Operator	790	10	1,730	10
Secretary-Stenographer	754	11	3,364	6
Machinist	693	12	948	18 2/
Teacher	668	13	1,908	9
Secretary-Executive	618	14	1,598	11
Technician, Executive	569	15	1,134	14

1/ Includes estimated 5-year growth plus 5-year replacement needs.

2/ Reflects rank in list of all surveyed occupations. Consequently, may exceed the number of jobs listed here.

TABLE J

PRINCE GEORGES COUNTY
OCCUPATIONS REFLECTING GREATEST GROWTH AND TOTAL REQUIREMENTS
IN PERIOD 1971-1976

Occupation	5-Year Growth	Rank	Total Additional 1/ Requirements	Rank
Salesperson, Inside	2,308	1	12,883	1
Clerk-Typist	1,332	2	6,142	3
Salesman, Outside	1,312	3	2,207	6
Food Service Worker	1,292	4	8,792	2
Draftsman	1,075	5	1,180	11
Clerk, General Office	899	6	5,584	4
Technician, Civil Engineering	688	7	823	16
Teacher	483	8	1,613	8
Auto Mechanic	474	9	1,539	9
Teacher's Aide-Day Care Center	433	10	783	17 2/
Management Trainee	404	11	979	13
Bookkeeper, Clerical	356	12	1,271	10
Carpenter	342	13	4,422	5
Secretary-Stenographer	326	14	1,176	12
Recreation Leader	321	15	376	33 2/
Secretary-Executive	292	16	1,932	7

1/ Includes estimated 5-year growth plus 5-year replacement needs

2/ Reflects rank in list of all surveyed occupations. Consequently, may exceed the number of jobs listed here.

EDUCATIONAL REQUIREMENTS
PRINCE GEORGE'S COUNTY
1971

Table K

Occupation	Employment 1971	Education Required							No Education Specified
		High School			College				
		10	11	12	1	2	3	4	
TOTAL OF SURVEYED OCCUPATIONS	80,974	10,694	1,435	38,885	427	2,520	773	12,320	13,920
BUSINESS OCCUPATIONS	38,548	3,081	1,224	23,933	215	1,363	25	1,404	7,303
Accountant	872	-	-	69	6	153	5	472	167
Accountant Assistant	324	-	1	142	28	110	-	17	26
Artist, Commercial	250	-	-	165	17	-	-	8	60
Bookkeeper, Clerical	1,882	9	-	1,353	40	210	9	2	259
Bookkeeper, Machine	300	7	-	234	2	6	-	-	51
Business Machine Operator	153	34	-	68	4	13	-	-	34
Buyer or Purchasing Agent	409	-	-	129	-	73	-	55	152
Personnel Worker	730	-	-	331	4	47	-	255	93
BUSINESS MANAGEMENT									
Food Service Manager	557	16	-	411	-	37	-	60	33
Hotel-Motel Manager	71	-	-	18	-	7	-	9	37
Nursery Manager (Horticultural)	81	-	-	2	-	-	-	76	3
Printing Production Manager	77	-	-	64	-	1	-	9	3
Service Station Manager	315	68	-	239	-	-	-	-	8
Transportation-Traffic Manager	77	-	-	41	-	8	-	19	9
CLERICAL									
Clerk, General Office	6,157	1,154	43	4,120	2	53	-	-	785
Clerk-Typist	6,092	340	2	5,361	-	14	-	-	375
Secretary-Executive	1,725	5	-	1,337	14	189	-	18	162
Secretary-Legal	732	-	-	244	-	116	-	-	372
Secretary-Medical	537	-	-	286	-	101	-	-	150
Secretary-Stenographer	1,829	73	-	1,468	2	55	-	-	231
Stenotype Operator	46	-	-	46	-	-	-	-	-
SALES									
Salesman, Outside	2,455	216	-	1,343	78	42	2	261	513
Salesperson, Inside	12,447	1,159	1,178	6,315	14	111	-	11	3,659
TRAINEE									
Management Trainee	413	-	-	147	-	17	9	123	117
Marketing Trainee	14	-	-	-	3	-	-	9	2
Real Estate and Insurance Trainee	3	-	-	-	1	-	-	-	2

EDUCATIONAL REQUIREMENTS
PRINCE GEORGE'S COUNTY
1971
(Contd.)

Occupation	Employment 1971	Education Required							No Education Specified
		High School			College				
		10	11	12	1	2	3	4	
DATA PROCESSING OCCUPATIONS	2,822	194	-	1,516	58	142	37	596	279
Computer Operator	436	-	-	400	9	14	-	-	13
Computer Operations Supervisor	95	-	-	36	6	25	-	15	13
Computer Programmer-Business	604	-	-	110	14	91	37	335	17
Computer Programmer-Scientific	192	-	-	61	10	-	-	121	-
Data Control Clerk	117	10	-	35	2	3	-	-	17
Key Punch Operator	984	184	-	742	17	2	-	-	39
Systems Analyst	366	-	-	58	-	7	-	125	176
Tabulating Machine Operator	28	-	-	24	-	-	-	-	4
HEALTH OCCUPATIONS	2,648	-	141	528	136	487	710	180	466
Dental Assistant	290	-	-	290	-	-	-	-	-
Dental Hygienist	7	-	-	-	-	7	-	-	-
Dental Laboratory Technician	-	-	-	-	-	-	-	-	-
Medical Assistant	345	-	141	14	-	-	-	2	188
Medical Laboratory Technician	267	-	-	-	86	100	-	7	74
Medical Technologist	24	-	-	-	-	-	-	24	-
Nurse, Licensed Practical	264	-	-	179	50	19	-	2	14
Nurse, Registered	1,382	-	-	-	-	344	710	140	188
Radiological (X-ray) Technician	69	-	-	45	-	17	-	5	2
SERVICE OCCUPATIONS 1/	14,710	1,142	-	2,815	7	150	-	9,806	790
PUBLIC SERVICE									
Correction Aide (Penal)	170	-	-	82	-	-	-	88	-
Fire Safety Officer	119	-	-	38	-	-	-	5	76
Law Enforcement Officer	1,426	-	-	1,409	-	-	-	-	17
Library Assistant	466	-	-	256	7	4	-	60	139
Recreation Leader	524	480	-	16	-	7	-	-	21
Social Welfare Assistant	242	-	-	-	-	-	-	189	53
Teacher	9,559	-	-	7	-	74	-	9,462	16
Teacher's Aide-School	549	-	-	270	-	-	-	-	279
Urban Planning Assistant	10	-	-	10	-	-	-	-	-
PRIVATE SERVICE									
Airplane Pilot	81	-	-	49	-	30	-	2	-
Air Traffic Controller	77	-	-	75	-	-	-	-	2
Industrial Security Officer	851	662	-	19	-	2	-	-	168
Mortician	40	-	-	7	-	32	-	-	-
Private Investigator	40	-	-	31	-	-	-	-	9

EDUCATIONAL REQUIREMENTS
PRINCE GEORGE'S COUNTY
1971
(Contd.)

Occupation	Employment 1971	Education Required							No Education Specified
		High School			College				
		10	11	12	1	2	3	4	
TECHNICAL OCCUPATIONS	1,626	-	-	988	1	127	1	328	181
Cartographer and Cartographic Technician	25	-	-	4	-	21	-	-	-
Technician, Communication	208	-	-	148	-	-	-	-	60
Technician, Architectural	65	-	-	38	-	-	-	16	11
Technician, Chemical Engineering	89	-	-	83	-	-	-	3	3
Technician, Civil Engineering	654	-	-	429	-	2	-	218	5
Technician, Electronic	341	-	-	187	1	88	-	10	55
Technician, General Engineering	107	-	-	64	-	10	1	28	4
Technician, Mechanical Engineering	81	-	-	15	-	6	-	52	8
Technician, Nuclear or Radiation	2	-	-	2	-	-	-	-	-
Technician, Sanitation or Environmental	54	-	-	18	-	-	-	1	35
TRADES AND INDUSTRIAL OCCUPATIONS	20,620	6,277	70	9,105	10	251	-	6	4,901
Air Conditioning Mechanic	313	19	-	212	-	9	-	-	73
Aircraft Mechanic	19	-	-	19	-	-	-	-	-
Appliance Repairman	643	74	-	520	-	-	-	-	49
Auto Mechanic	1,803	319	-	1,040	-	46	-	-	398
Auto Body Repairman	689	137	-	351	-	-	-	-	201
Carpenter	1,877	731	14	707	-	2	-	-	423
Cosmetologist	782	-	-	463	-	-	-	-	319
Draftsman	749	2	-	568	-	155	-	-	24
Electrician	1,091	408	-	412	-	3	-	2	266
Electronic Repairman	307	-	-	196	-	3	-	-	108
Engineering Aide	224	12	-	172	3	21	-	-	16
Food Service Worker	7,740	3,646	-	2,494	-	-	-	-	1,600
Landscaper	227	148	-	53	7	-	-	-	19
Machinist	366	54	-	222	-	-	-	-	90
PRINTING TRADES									
Printing, Binder Operator	402	8	56	190	-	-	-	-	148
Printer Estimator	10	-	-	2	-	4	-	4	-
Printing Pressman	452	29	-	245	-	-	-	-	178
Printing, Process Cameraman	426	326	-	61	-	-	-	-	39
Printing, Typesetter	99	-	-	91	-	8	-	-	-
OTHER OCCUPATIONS									
Service Station Attendant	1,500	288	-	432	-	-	-	-	780
Sheet Metal Worker	718	52	-	578	-	-	-	-	88
Welder	183	24	-	77	-	-	-	-	82

EDUCATIONAL REQUIREMENTS
MONTGOMERY COUNTY
1971

Table L

Occupation	Employment 1971	Education Required							No Education Specified
		High School			College				
		10	11	12	1	2	3	4	
TOTAL OF SURVEYED OCCUPATIONS	80,311	9,523	989	32,875	708	5,258	1,014	12,370	17,574
BUSINESS OCCUPATIONS	40,103	1,868	797	21,625	394	2,176	162	2,363	10,718
Accountant	1,618	-	-	56	17	257	62	990	236
Accountant Assistant	672	-	-	271	12	197	6	26	160
Artist, Commercial	155	-	-	40	20	50	-	26	19
Bookkeeper, Clerical	2,178	18	2	1,511	55	216	-	4	372
Bookkeeper, Machine	440	-	-	266	2	7	-	-	165
Business Machine Operator	455	-	2	301	-	20	-	-	132
Buyer or Purchasing Agent	660	16	-	254	18	173	4	83	112
Personnel Worker	818	-	-	376	54	45	4	252	87
BUSINESS MANAGEMENT									
Food Service Manager	708	16	2	557	2	46	-	33	52
Hotel-Motel Manager	84	-	-	34	-	6	-	9	35
Nursery Manager (Horticultural)	33	-	-	6	-	8	-	6	13
Printing Production Manager	63	4	-	42	2	4	-	5	6
Service Station Manager	259	80	13	117	-	35	-	-	14
Transportation-Traffic Manager	76	2	-	35	-	3	-	16	20
CLERICAL									
Clerk, General Office	7,485	424	667	4,564	2	9	-	-	1,819
Clerk-Typist	3,815	197	-	2,895	20	12	-	-	691
Secretary-Executive	1,727	-	-	816	84	353	9	41	424
Secretary-Legal	274	2	13	112	-	40	-	-	107
Secretary-Medical	275	2	-	194	-	39	-	-	40
Secretary-Stenographer	3,300	54	-	2,454	59	86	-	12	635
Stenotype Operator	34	-	-	21	2	-	-	-	11
SALES									
Salesman, Outside	3,046	-	-	876	15	370	75	563	1,147
Salesperson, Inside	11,417	1,047	98	5,664	16	85	-	185	4,322
TRAINEE									
Management Trainee	429	6	-	163	14	49	2	102	93
Marketing Trainee	10	-	-	-	-	-	-	10	-
Real Estate and Insurance Trainee	72	-	-	-	-	66	-	-	6

EDUCATIONAL REQUIREMENTS
MONTGOMERY COUNTY
1971
(Contd.)

Occupation	Employment 1971	Education Required							No Education Specified
		High School			College				
		10	11	12	1	2	3	4	
DATA PROCESSING OCCUPATIONS	4,024	71	-	1,414	118	266	19	1,248	888
Computer Operator	561	14	-	299	16	46	-	18	168
Computer Operations Supervisor	169	4	-	23	8	24	-	75	35
Computer Programmer-Business	979	5	-	205	41	145	2	496	85
Computer Programmer-Scientific	287	-	-	13	-	11	17	178	68
Data Control Clerk	224	-	-	176	-	2	-	-	46
Key Punch Operator	870	43	-	587	41	10	-	-	189
Systems Analyst	861	5	-	70	-	28	-	481	277
Tabulating Machine Operator	73	-	-	41	12	-	-	-	20
HEALTH OCCUPATIONS	2,384	-	-	396	27	365	827	559	210
Dental Assistant	79	-	-	53	-	2	12	-	12
Dental Hygienist	67	-	-	-	-	43	-	12	12
Dental Laboratory Technician	148	-	-	136	-	-	-	-	12
Medical Assistant	152	-	-	50	-	-	-	-	102
Medical Laboratory Technician	239	-	-	95	-	6	-	113	25
Medical Technologist	147	-	-	-	4	-	41	77	25
Nurse, Licensed Practical	296	-	-	55	21	215	-	2	3
Nurse, Registered	1,195	-	-	-	-	47	774	355	19
Radiological (X-ray) Technician	61	-	-	7	2	52	-	-	-
SERVICE OCCUPATIONS	9,912	28	-	2,005	2	98	-	7,604	175
PUBLIC SERVICE									
Correction Aide (Penal)	-	-	-	-	-	-	-	-	-
Fire Safety Officer	188	28	-	140	-	2	-	18	-
Law Enforcement Officer	1,566	-	-	1,397	-	21	-	-	148
Library Assistant	254	-	-	83	2	47	-	104	18
Recreation Leader	87	-	-	14	-	22	-	47	4
Social Welfare Assistant	60	-	-	-	-	-	-	60	-
Teacher	7,357	-	-	-	-	-	-	7,357	-
Teacher's Aide-School	280	-	-	280	-	-	-	-	-
Teacher's Aide-Day Care Center	-	-	-	-	-	-	-	-	-
Urban Planning Assistant	11	-	-	9	-	-	-	2	-
PRIVATE SERVICE									
Airplane Pilot	8	-	-	-	-	-	-	8	-
Air Traffic Controller	-	-	-	-	-	-	-	-	-
Industrial Security Officer	41	-	-	22	-	6	-	8	5
Mortician	56	-	-	56	-	-	-	-	-
Private Investigator	-	-	-	-	-	-	-	-	-

EDUCATIONAL REQUIREMENTS
MONTGOMERY COUNTY
1971
(Contd.)

Occupation	Employment 1971	Education Required							No Education Specified
		High School			College				
		10	11	12	1	2	3	4	
TECHNICAL OCCUPATIONS	4,489	73	-	946	36	2,147	-	578	709
Cartographer and Cartographic Technician	1,058	-	-	-	-	1,058	-	-	-
Technician, Communication	183	-	-	72	-	99	-	-	12
Technician, Architectural	129	-	-	5	-	39	-	77	8
Technician, Chemical Engineering	44	-	-	7	-	25	-	8	4
Technician, Civil Engineering	149	-	-	1	-	17	-	99	32
Technician, Electronic	1,404	-	-	459	25	519	-	143	258
Technician, General Engineering	1,046	-	-	325	11	274	-	124	312
Technician, Mechanical Engineering	284	-	-	77	-	94	-	52	61
Technician, Nuclear or Radiation	53	-	-	-	-	10	-	36	7
Technician, Sanitation or Environmental	139	73	-	-	-	12	-	39	15
TRADES AND INDUSTRIAL OCCUPATIONS	19,399	7,483	192	6,489	131	206	6	18	4,874
Air Conditioning Mechanic	640	51	-	408	-	54	-	-	127
Aircraft Mechanic	26	-	-	26	-	-	-	-	-
Appliance Repairman	349	100	96	120	33	-	-	-	-
Auto Mechanic	1,739	421	25	892	-	-	-	-	401
Auto Body Repairman	343	71	37	164	-	-	-	-	71
Carpenter	2,295	631	-	688	-	-	-	-	976
Cosmetologist	404	196	-	193	-	-	-	-	15
Draftsman	756	-	-	450	87	94	-	2	123
Electrician	1,365	148	-	433	-	2	-	-	782
Electronic Repairman	812	250	-	92	-	-	6	-	464
Engineering Aide	144	9	-	50	4	28	-	12	41
Food Service Worker	5,769	4,211	21	549	-	-	-	-	988
Landscaper	440	52	-	88	-	2	-	4	294
Machinist	684	64	11	507	7	-	-	-	95
PRINTING TRADES									
Printing, Binder Operator	257	20	2	233	-	-	-	-	2
Printing Estimator	34	-	-	18	-	6	-	-	10
Printing Pressman	618	11	-	555	-	2	-	-	50
Printing, Process Cameraman	219	6	-	190	-	12	-	-	11
Printing, Typesetter	171	-	-	165	-	6	-	-	-
OTHER OCCUPATIONS									
Service Station Attendant	1,438	878	-	320	-	-	-	-	240
Sheet Metal Worker	700	232	-	207	-	-	-	-	150
Welder	196	21	-	141	-	-	-	-	34

TABLE M

MONTGOMERY COUNTY
EMPLOYER USE OF COMPUTERS (SAMPLE UNINFLATED)
1971

Make of Computer and Industry	Number of Employers	Computer Related Occupations										Number Using Time Sharing
		Operators	Supervisors	Programmers		Key Punch Operators	Systems Analyst	Tab. Machine Oper.	Orientation			
				Business	Scien.				Disc	Card	Tape	
Total Using Computers	139	330	88	561	175	427	419	41	48	29	49	75
Total Using IBM Computers	56	136	42	245	40	274	101	5	32	10	21	16
Construction	4	2	2	1		3			3	2		1
Manufacturing	5	4	3	8		12	1		4	2	1	1
Transportation & Utilities	1									1		1
Trade	12	17	7	9	5	31	3	1	8	2	4	3
Finance, Insurance & Real Estate	4	5	1	5		4	1	1	1	1	1	1
Services	26	51	22	148	35	200	59		13		13	9
Government	4	57	11	74		24	37	3	3	2	2	-
Total Using CDC Computers	10	101	14	53	52	18	135	15	5	5	6	8
Manufacturing	2	1		1	3	1				1	1	2
Services	6	68	8	46	23	11	126	7	3		4	5
Government	2	32	6	6	26	6	9	8	2	1	1	1
Total Using UNIVAC Computers	10	58	14	68	20	93	93	21	5	7	9	4
Manufacturing	1					1				1		-
Services	6	15	5	33	15	69	40	2	4	4	6	4
Government	3	43	9	35	5	23	53	19	1	2	3	-
Total Using NCR Computers	5	14	4	23		20	9			4	2	
Trade	1									1		-
Finance, Insurance & Real Estate	1	3	2	2		3				2		
Services	1	3	1	1		3					1	-
Government	2	8	1	20		14	9			1	1	
Total Using Other Computers 1/	14	21	8	66	43	22	41		5	2	10	3
Construction	1										1	
Transportation & Utilities	1		1	3					1			
Trade	3			20	20		2		1		2	1
Services	6	10	4	32	17	6	33		3	2	4	1
Government	3	11	3	11	6	16	6				3	1
Make of Computer Not Designated	44		6	106	20		40		1	1	1	44

1/ Includes Xerox, RCA, Hewlett Packard, Varian, Recognition, DEC and Olivetti Programma.

TABLE N

MODELS OF COMPUTERS AND PROGRAM LANGUAGE
MONTGOMERY COUNTY
1971

Name of Computer	Model	Number of Employers 1/	Number of Employers Using Language						Orientation			Time Sharing
			Cobol	Fortran	RPG	Assembly	Basic	Other	Card	Disc	Tape	
IBM	360-20	5	1	1	4	1	1		1	4		1
(International Business	360-25	2								1		1
Machines)	360-30	13	8	2	4	4	1	4	2	7	5	6
	360-40	3	1		1	1		2	3	4	3	
	360-50	1	1	1						1	1	
	360-65	2	1	2				2	1	1	1	2
	360-Undesig.	6	2	1	3	1	1	1	3	4	2	3
	1130	8	2	7	1	1			4	6	3	4
	1401	4	1		1			2	3	2	3	1
	1440	3	2	1	2					1		
	Other	9			1			1	2	3	2	
CDC	1700	1				1				1		1
(Control Data Corp.)	3100	1		1						1	1	1
	3200	1							1	1	1	1
	3300	1	1	1					1	1		1
	6000	1					1				1	1
	6400	2	2	2			1	1	2	2	1	2
	6600	4	1	3					3	1	1	3
	6700	1	1							1		1
UNIVAC	1108	7	3	3	1	1	3	1	4	4	7	6
	9200	1			1				1			
	418-11	1	1	1				1	1	1	1	
	Other	1							1	1	1	
NCR	315	2	1					1	1		1	
(National Cash Register)	395	1						1	1			
	500	2						2	1		1	
OTHER COMPUTERS		14	2	4		4	3	2	2	5	10	3
Make of Computer Not Designated		44										

1/ Does not total same as TABLE M, due to some employers using more than one computer model.

TABLE O

PRINCE GEORGES COUNTY
EMPLOYER USE OF COMPUTERS (SAMPLE UNINFLATED)
1971

Make of Computer and Industry	Number of Employers	Computer Related Occupations							Orientation			Number Using Time Sharing
		Operators	Supervisors	Programmers		Key Punch Operators	Systems Analyst	Tab. Machine Oper.	Disc	Card	Tape	
				Business	Scien.							
Total Using Computers	91	278	112	494	210	611	94	11	31	15	29	38
Total Using IBM Computers	44	167	47	272	73	385	59	4	25	9	20	12
Construction	3	1							1			1
Manufacturing	11	28	4	21	37	54	23	1	5	4	4	3
Transportation & Utilities	1								1		1	1
Trade	11	12	6	6		18	1	2	7		6	3
Finance, Insurance & Real Estate	3	11	3	14		20	3		2		2	
Services	6	17	5	51		135	14	1	4	3	4	1
Government	9	98	29	180	36	158	18		5	2	3	3
Total Using UNIVAC Computers	6	95	25	165	39	159	34	6	1	1	4	2
Services	4	8	3	11	39	22	20	6			3	1
Government	2	87	22	154		137	14		1	1	1	1
Total Using Other Computers	14	14	36	49	97	44			5	5	5	3
Construction	1										1	
Manufacturing	1	1								2		
Trade	4		1			2				2	2	1
Finance, Insurance & Real Estate	2	3	2	2		5			2			
Services	4	1	29	35	77	17			1	1	1	1
Government	2	9	4	12	20	20			2		1	1
Make of Computer Not Designated	27	2	4	8	1	23	1	1				21

TABLE P

MODELS OF COMPUTERS AND PROGRAM LANGUAGE
PRINCE GEORGES COUNTY
1971

Name of Computer	Model	Number of Employers 1/	Number of Employers Using Language						Orientation			Time Sharing
			Cobol	Fortran	RPG	Assembly	Basic	Other	Card	Disc	Tape	
IBM	System 3	4			2					1	1	1
	360-10	2			2			1	1	1	3	
	360-20	5	2	2	3	1			2	4	2	3
	360-25	1			1			1		1	1	
	360-30	13	12	3	5	2		5	2	10	8	2
	360-40	7	5					2	2	6	4	
	360-65	1	1	1				1		1	1	
	360-70	1	1	1				1		1	1	
	360-80	1	1	1				1		1	1	
	360-Undesig.	6	2			1		1	1	3	5	2
	1130	3								3		
	1401.	2		1				1				
	Other	4	1	1	1	1		1		1	1	1
UNIVAC	1107	2		1				1	1	1	1	2
	1108	4		2				1	1	1	2	2
	418-12	1	1	1							1	
	9300	1	1		1						1	
OTHER COMPUTERS		12	3			2	1	4	5	5	5	3
Make of Computer Not Designated		27										21

1/ Does not total same as TABLE M, due to some employers using more than one computer model.